

FIG. 1

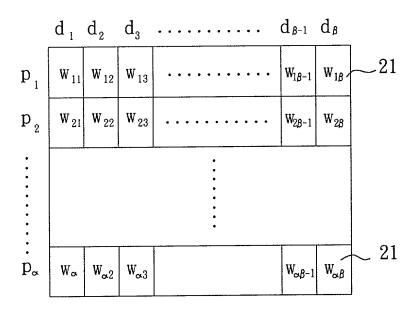


FIG. 2

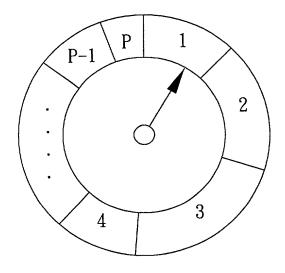


FIG. 3

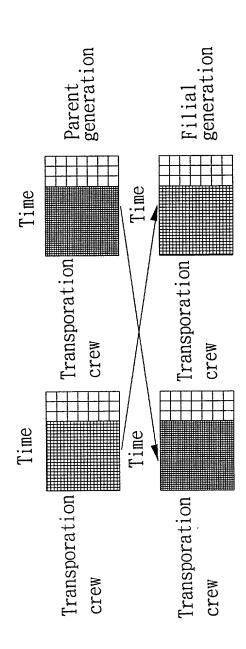


FIG. 4

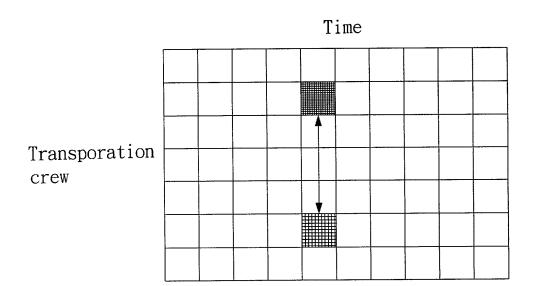


FIG. 5

Filling the predetermined activities and predetermined duties Determine the number of crews required in duty. Looking for a corresponding number of transportation crews required based on the number of crews required in a duty. Determining whether the transportation crew has duties? Checking whether the crew being a training crew or a checked crew? Checking the special line duty confinement and special area duty confinement? Filling duties Filling crews waiting for duties. Generating initial samples.

FIG. 6

PENALTY	GA Parameter
Absolute confinement	Time(min) Generation
One holliday V per week FDP MRT 32 hours in 7 days	SampleSpace MutationRate 360 0.3
Optimun confinement	Population MutationTimes
One holliday per One holliday per PNC Err	200 1
0 0 16500	Crossover Rate
back to base VLayover 6leg_no_pncl	
5 600	crossoverlp
□100H	crossover1
	Mutation_999
V Average	
FT 1 PNC 1 layover 1	
PNC(1-5) L/O(1-5) PNC(WK) L/O(WK)	☐ cantpnc-log999 V Elitism 30 ♣
20 5 20 5	V Record the 10
	interval
✓ OK	⊉ Default

FIG. 7

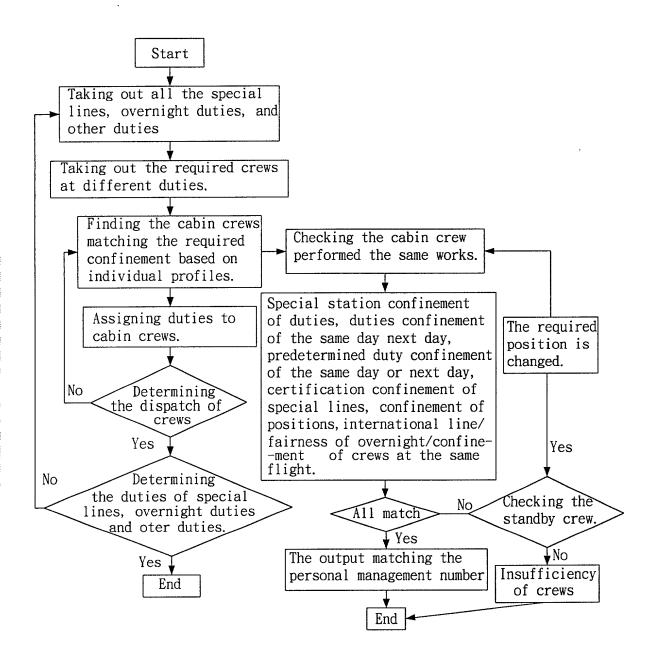


FIG. 8

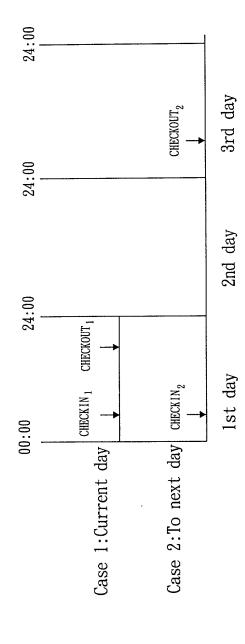


FIG.

	Confinement penalty value setting Operation Operation	Mumber (\$0000) Good of the control of the contro	Concel O Default	ıle
TIME PERIOD 2001/ 3/1 -15	FT average 2105 minutes at this stage FT average 12177 minutes in the past Perdiem average 3551 minutes at this stage Perdiem average 23156 minutes in the past Enter Kernel , please waite Press Resume to continue Continue Process Press Resume to continue	Test mode	ser	Generate log file 10 📥 Generate Multi-Schedule

FIG. 10